

In the Claims:

Claims 1-10 (canceled)

11. (New) A process for treating a combustion gas stream, said process comprises:

passing said combustion gas stream, which comprises particulate matter, through a duct that is in fluid flow communication with a combustion equipment, wherein said duct defines a cross-section and is fitted with assembly means, wherein said assembly means comprises a particulate trap and a sliding-gate housing, wherein said assembly means provides for the placement of said particulate trap in said duct and the removal of said particulate trap from said duct while said combustion equipment is online;

passing said combustion gas stream through said particulate trap to thereby remove said particulate matter from said combustion gas stream to provide a filtered gas stream;

passing said filtered gas stream over an environmental reactor catalyst bed contained in said duct downstream from said particulate trap to thereby provide a clean gas stream; and

passing said clean gas stream to a stack for release.

12. (New) A process as recited in claim 11, wherein said particulate trap further comprises:

a plurality of filtering layers, each layer having a mesh size, contained in a housing to provide a predetermined shape.

13. (New) A process as recited in claim 12, wherein said plurality of filtering layers includes two filtering layers having a first media to catch larger particles, wherein said plurality of filtering layers further includes one filtering layer having a second media to catch smaller particles, and wherein said one filtering layer having said second media is sandwiched between said two filtering layers having said first media.

14. (New) A process as recited in claim 13, wherein each filtering layer of said plurality of filtering layers is a sintered weave material.

15. (New) A process as recited in claim 14, wherein each filtering layer of said plurality of filtering layers is a pleated filtering layer.

16. (New) A process as recited in claim 11, wherein said assembly means comprises a sliding-gate valve having a sliding gate that has been removed therefrom and replaced therewith said particulate trap.

17. (New) A process as recited in claim 11, wherein said particulate trap further comprises:

a plurality of filtering layers, each layer having a mesh size, contained in a housing to provide a predetermined shape.

18. (New) A process as recited in claim 17, wherein said plurality of filtering layers includes two filtering layers having a first media to catch larger particles, wherein said plurality of filtering layers further includes one filtering layer having a second media to catch smaller particles, and wherein said one filtering layer having said second media is sandwiched between said two filtering layers having said first media.

19. (New) A process as recited in claim 18, wherein each filtering layer of said plurality of filtering layers is a sintered weave material.

20. (New) A process as recited in claim 19, wherein each filtering layer of said plurality of filtering layers is a pleated filtering layer.

21. (New) A process as recited in claim 11, further comprising:

cleaning said particulate trap while in place in said duct by spraying a cleaning media upon said particulate trap.

22. (New) A process as recited in claim 21, wherein said particulate trap further comprises:

a plurality of filtering layers, each layer having a mesh size, contained in a housing to provide a predetermined shape.

23. (New) A process as recited in claim 22, wherein said plurality of filtering layers includes two filtering layers having a first media to catch larger particles, wherein said plurality of filtering layers further includes one filtering layer having a second media to catch smaller particles, and wherein said one filtering layer having said second media is sandwiched between said two filtering layers having said first media.

24. (New) A process as recited in claim 23, wherein each filtering layer of said plurality of filtering layers is a sintered weave material.

25. (New) A process as recited in claim 24, wherein each filtering layer of said plurality of filtering layers is a pleated filtering layer.

26. (New) A process as recited in claim 25, wherein said assembly means comprises a sliding-gate valve having a sliding gate that has been removed therefrom and replaced therewith said particulate trap.